

APP  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
BOARD OF PATENT APPEALS AND INTERFERENCES**

(248) 647-6000  
TROY, MICHIGAN 48007-7021  
P.O. BOX 7021  
2701 TROY CENTER DR., SUITE 330, P.C.

In re application of: Baker

Atty. Docket No.: BBA-10002/29

Serial No.: 10/821,766

Group No.: 3676

Filed: April 9, 2004

Examiner: Mark A. Williams

For: ERGONOMIC HANDLES, ESPECIALLY FOR GARDEN TOOLS

**APPELLANT'S APPEAL BRIEF UNDER 37 CFR §1.192**

Mail Stop Appeal Brief  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**I. Real Party in Interest**

The real party and interest in this case are Bruce Baker, Applicant and Appellant.

**II. Related Appeals and Interferences**

There are no appeals or interferences which will directly affect or be directly affected by or have a bearing on the Board's decision in the pending appeal.

**III. Status of Claims**

The present application was filed with 12 claims. Claims 13-19 were added by amendment in December 2004. Claims 20-31 were added by amendment in July 2005. Claims 1-19 and 26-29 have been canceled. Claims 20-25, 30 and 31 are rejected, pending and under appeal. Claim 20 is the sole independent claim.

**IV. Status of Amendments Filed Subsequent  
Final Rejection**

An after-final amendment is being submitted herewith changing "users" to "user's" in claim 31.

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## TRANSMITTAL OF APPEAL BRIEF

Docket No.  
BBA-10002/29

In re Application of: Bruce Baker

Application No. 10/821,766-Conf. #1449	Filing Date April 9, 2004	Examiner M. A. Williams	Group Art Unit 3676
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Invention: ERGONOMIC HANDLES, ESPECIALLY FOR GARDEN TOOLS

### TO THE COMMISSIONER OF PATENTS:

Transmitted herewith is the Appeal Brief in this application, with respect to the Notice of Appeal  
filed: June 23, 2006.

The fee for filing this Appeal Brief is \$ 250.00.

Large Entity       Small Entity

A petition for extension of time is also enclosed.

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A check in the amount of \$250.00 is enclosed.

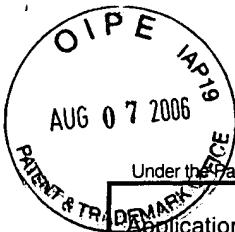
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John G. Posal  
Attorney Reg. No.: 37,424  
GIFFORD, KRASS, GROH, SPRINKLE, ANDERSON  
& CITKOWSKI, P.C.  
2701 Troy Center Drive, Suite 330  
Post Office Box 7021  
Troy, Michigan 48007-7021  
(734) 913-9300

Dated: August 3, 2006



PTO/SB/92 (09-04)

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Application No. (if known): 10/821,766

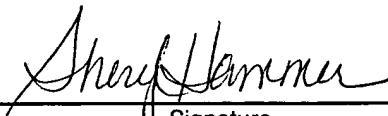
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Appeal Brief (11 pages)  
Amendment (4 pages)  
Appeal Brief Transmittal  
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**V. Summary of Claimed Subject Matter**

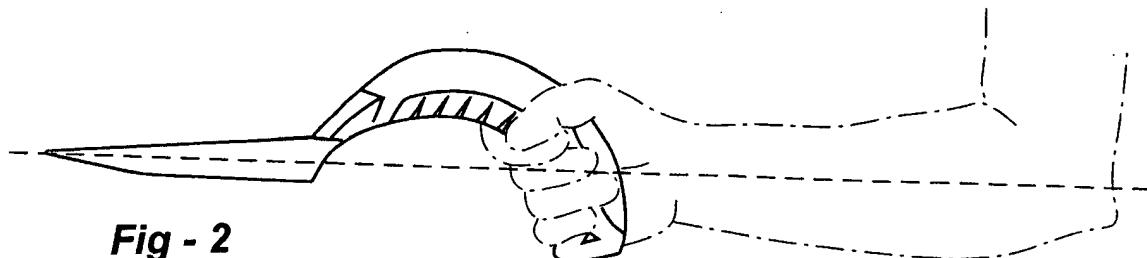
Independent claim 20 is directed to a hand tool 104, comprising a curved trowel blade 104 having a lower surface tangent to a plane and a handle 102 attached to the blade. The handle is curved in a plane perpendicular to the plane tangent to the blade (Figure 3). The handle further includes an outer surface defining a portion of a circular arc (Figure 1). The handle terminates in a gripping section that intersects and extends beyond the plane tangent to the blade. (Specification page 5, line 21 to page 7, line 11; Figures 1-3)

**VI. Grounds of Objection/Rejection To Be Reviewed On Appeal**

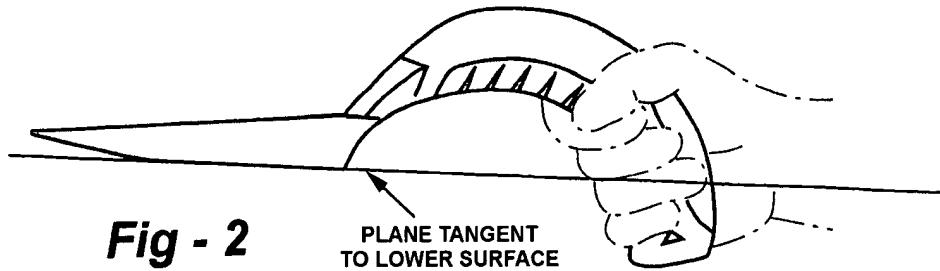
1. The rejection of claims 20 and 31 under 35 U.S.C. §102(b) as being anticipated by U.S. Design Patent No. D305,496 to Jasperson.

**VII. Argument****A. Claims 20-30, wherein claims 21-30 stand/fall with claim 20**

Claim 20 includes, among other limitations, a curved trowel blade having a lower surface tangent to a plane and a handle that terminates in a gripping section that intersects and extends beyond the plane tangent to the blade. This configuration allows a user to hold the tool in a wrist-neutral position, with a user's forearm aligned along the primary line of attack, depicted as a broken line in Figure 2 of the application, reproduced below:

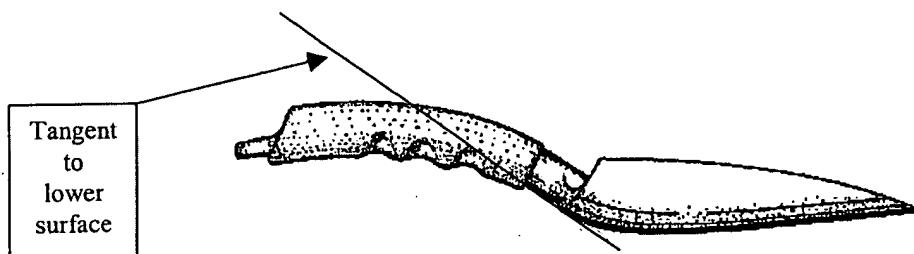


To illustrate the limitation of "a lower surface tangent to a plane and a handle that terminates in a gripping section that intersects and extends beyond the plane tangent to the blade," Appellant draws a line as follows:

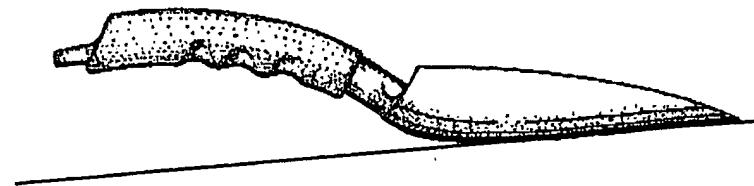


**Fig - 2**

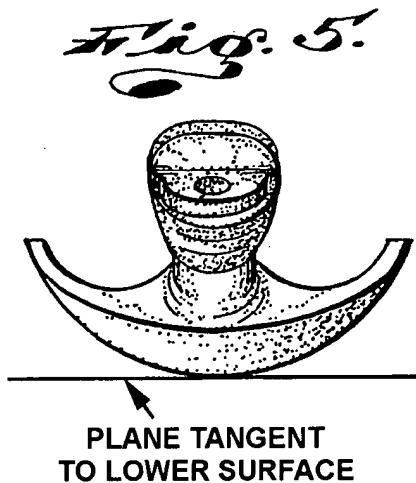
This is the only *reasonable* interpretation of this limitation. The Examiner rejected the claim, however, under 35 U.S.C. §102(b) as being anticipated by U.S. Design Patent No. D305,496 to Jasperson, entitled "Garden Trowel." In an effort to legitimize this rejection, the Examiner drew a line "tangent to lower surface" of the implement of Jasperson as follows:



This interpretation is arbitrary and contrary to common sense. Using this self-serving interpretation, the Examiner is able to argue that the gripping section of Jasperson intersects and extends beyond the plane tangent to the blade. The *reasonable* person, however, would draw the tangent as follows, precluding anticipation, because the gripping section of Jasperson does NOT "intersect and extend beyond the plane tangent to the blade."



While Appellant is fully cognizant that during patent examination pending claims can—and, indeed, should—be given their broadest reasonable interpretation, in this case, the Examiner’s interpretation is entirely unreasonable. Appellant’s position is supported by the fact that if the Examiner had simply used another Figure of Jasperson—Figure 5, for example—the handle never comes near a plane tangent to the “lower surface.”



To be consistent, the Examiner must be able to draw his proposed line on *every view* of the cited reference.” This is impossible because the Examiner’s interpretation of Appellant’s claim language is unorthodox. [T]he ordinary and customary meaning of a claim term is the meaning that the term would have to a person of ordinary skill in the art in question at the time of the invention, *i.e.*, as of the effective filing date of the patent application.” Phillips v. AWH Corp., 415 F.3d 1301 (Fed. Cir. 2005), 75 USPQ2d 1321 (Fed. Cir. 2005) (*en banc*); Sunrace Roots Enter. Co. v. SRAM Corp., 336 F.3d 1298, 1302, 67 USPQ2d 1438, 1441 (Fed. Cir. 2003); Brookhill-Wilk 1, LLC v. Intuitive Surgical, Inc., 334 F.3d 1294, 1298 67 USPQ2d 1132, 1136 (Fed. Cir. 2003) (“In the absence of an express intent to impart a novel meaning to the claim terms, the words are presumed to take on the ordinary and customary meanings attributed to them by those of ordinary skill in the art.”). It is the use of the words in the context of the written description and customarily by those skilled in the relevant art that accurately reflects both the “ordinary” and the “customary” meaning of the terms in the claims. Ferguson Beauregard/Logic Controls v. Mega Systems, 350 F.3d 1327, 1338, 69 USPQ2d 1001, 1009 (Fed. Cir. 2003).

Thus, the broadest reasonable interpretation must be consistent with the interpretation *that those*

skilled in the art would reach. In re Cortright, 165 F.3d 1353, 1359, 49 USPQ2d 1464, 1468 (Fed. Cir. 1999). To the person of ordinary skill in *elementary geometry*, a plane tangent to the lower surface of any object is just that: *tangent to the lower surface*. Any reasonable person would first look at the bottom of the object to see if there is a lower surface and, if so, draw the line tangent to that surface. The skilled artisan would not arbitrarily travel up the side of the object and say that some arbitrary point is tangent to some arbitrary plane. Indeed, the Examiner's proposed line not only fails to be tangent to a "lower surface," it appears to tangent to a point on the handle and not on the blade.

Claim interpretation must also be consistent with the specification." In re Hyatt, 211 F.3d 1367, 1372, 54 USPQ2d 1664, 1667 (Fed. Cir. 2000). The written description must be examined in every case, because it is relevant not only to aid in the claim construction analysis, but also to determine if the presumption of ordinary and customary meaning is rebutted. See Renishaw PLC v. Marposs Societa' per Azioni, 158 F.3d 1243, 1250, 48 USPQ2d 1117, 1122 (Fed. Cir. 1988). The presumption will be overcome where the patentee, acting as his or her own lexicographer, has clearly set forth a definition of the term different from its ordinary and customary meaning. See In re Paulsen, 30 F.3d 1475, 1480, 31 USPQ2d 1671, 1674 (Fed. Cir. 1994); Intellicall, Inc. v. Phonometrics, Inc., 952 F.2d 1384, 1387-88, 21 USPQ2d 1383, 1386 (Fed. Cir. 1992). The presumption also will be rebutted if the inventor has disavowed or disclaimed scope of coverage, by using words or expressions of manifest exclusion or restriction, representing a clear disavowal of claim scope. See Teleflex, Inc. v. Ficosa N. Am. Corp., 299 F.3d 1313, 1324, 63 USPQ2d 1374, 1380 (Fed. Cir. 2002)

Consistency with the specification is important in this case, because the limitation of "a lower surface tangent to a plane and a handle that terminates in a gripping section that intersects and extends beyond the plane tangent to the blade" allows a user to hold the tool in a wrist-neutral position, with a user's forearm aligned along the primary line of attack, as shown in Appellant's drawing above. The tool of Jasperson is conventional. The handle is nearly straight. As such, a user would have to grip it in a conventional manner, with a bent wrist outside the wrist-neutral position.

#### B. Claim 31

Claim 31 also stands rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Design Patent No. D305,496 to Jasperson. Regarding this limitation, the Examiner's only "argument" is that

“the device [of Jasperson] is capable of performing as claimed.” This is not true. The handle of Jasperson can only be held with a bent wrist, creating the very problem that Appellant’s design avoids. This is not sufficient under section 102 of the statute. Although a prior art device may be capable of performing the way the apparatus is claimed, there must be a suggestion or motivation in the reference to do so. In re Mills, 916 F.2d at 682, 16 USPQ2d at 1432.). See also In re Fritch, 972 F.2d 1260, 23 USPQ2d 1780 (Fed. Cir. 1992). At the very least, the Examiner should articulate where, in the prior art, one would find the suggestion or motivation in support of the conclusion that the reference is “fully capable of” a particular function of interest. After all, the cited reference is a *design patent*, with no claimed functionality whatsoever.

That a certain result or characteristic may occur or be present in the prior art is not sufficient to establish the inherency of that result or characteristic. In re Rijckaert, 9 F.3d 1531, 1534, 28 USPQ2d 1955, 1957 (Fed. Cir. 1993). “To establish inherency, the extrinsic evidence ‘must make clear that the missing descriptive matter is necessarily present in the thing described in the reference, and that it would be so recognized by persons of ordinary skill. Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient.’ “ In re Robertson, 169 F.3d 743, 745, 49 USPQ2d 1949, 1950-51 (Fed. Cir. 1999) (citations omitted).

“In relying upon the theory of inherency, the examiner must provide a basis in fact and/or technical reasoning to reasonably support the determination that the allegedly inherent characteristic necessarily flows from the teachings of the applied prior art.” Ex parte Levy, 17 USPQ2d 1461, 1464 (Bd. Pat. App. & Inter. 1990) (emphasis in original) Given the design of Jasperson, it does not follow that “the device is capable of [allowing a user to hold the tool in a wrist-neutral position with a users forearm aligned along the line of attack].”

### Conclusion

In conclusion, for the arguments of record and the reasons set forth above, all pending claims of the subject application continue to be in condition for allowance and Appellant seeks the Board’s concurrence at this time.

Respectfully submitted,

By: 

John G. Posa

Reg. No. 37,424

Gifford, Krass, Groh, Sprinkle,  
Anderson & Citkowski, P.C.

PO Box 7021

Troy, MI 48007-7021

(734) 913-9300

Date: August 14, 2006

**APPENDIX A****CLAIMS ON APPEAL**

20. A hand tool, comprising:

a curved trowel blade having a lower surface tangent to a plane;

a handle attached to the blade, the handle being curved in a plane perpendicular to the plane tangent to the blade;

the handle including an outer surface defining a portion of a circular arc; and

wherein the handle terminates in a gripping section that intersects and extends beyond the plane tangent to the blade.

21. The hand tool of claim 20, wherein the circular arc has a center below the plane tangent to the blade.

22. The hand tool of claim 20, wherein the circular arc has a radius on the order of 3 to 4 inches.

23. The hand tool of claim 20, wherein the gripping section has a cross-sectional circumference in range from 3.5 to 5 inches.

24. The hand tool of claim 20, wherein the gripping section includes a slight taper along its length.

25. The hand tool of claim 20, wherein at least a portion of the gripping portion forms a flattened ellipsis in cross section.

30. The hand tool of claim 20, wherein the handle includes a polymeric covering.

31. The hand tool of claim 20, wherein:

the blade defines a primary line of attack; and  
the gripping section allows a user to hold the tool in a wrist-neutral position with a user's  
forearm aligned along the line of attack.

Serial No. 10/821,766

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**APPENDIX B**

**EVIDENCE**

None.

**APPENDIX C**

**RELATED PROCEEDINGS**

None.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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(280) 7021 TROY, MICHIGAN 48007-7021

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Group No.: 3676

Filed: April 9, 2004

Examiner: Mark A. Williams

For: ERGONOMIC HANDLES, ESPECIALLY FOR GARDEN TOOLS

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**AMENDMENT AND REPLY TO FINAL REJECTION**

Mail Stop AF  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22022-1450

Dear Sir:

In response to the final Office Action mailed February 23, 2006, please amend the above-referenced application as follows:

**CLAIM AMENDMENTS**

1. - 19. (Canceled)

20. (Previously Presented) A hand tool, comprising:  
a curved trowel blade having a lower surface tangent to a plane;  
a handle attached to the blade, the handle being curved in a plane perpendicular to the plane tangent to the blade;

the handle including an outer surface defining a portion of a circular arc; and  
wherein the handle terminates in a gripping section that intersects and extends beyond the plane tangent to the blade.

21. (Previously Presented) The hand tool of claim 20, wherein the circular arc has a center below the plane tangent to the blade.

22. (Previously Presented) The hand tool of claim 20, wherein the circular arc has a radius on the order of 3 to 4 inches.

23. (Previously Presented) The hand tool of claim 20, wherein the gripping section has a cross-sectional circumference in range from 3.5 to 5 inches.

24. (Previously Presented) The hand tool of claim 20, wherein the gripping section includes a slight taper along its length.

25. (Previously Presented) The hand tool of claim 20, wherein at least a portion of the gripping portion forms a flattened ellipsis in cross section.

26. - 29. (Canceled)

30. (Previously Presented) The hand tool of claim 20, wherein the handle includes a polymeric covering.

31. (Currently Amended) The hand tool of claim 20, wherein:  
the blade defines a primary line of attack; and  
the gripping section allows a user to hold the tool in a wrist-neutral position with a [[users]]  
user's forearm aligned along the line of attack.

**REMARKS**

By this amendment, claim 31 has been modified to correct a typographical error. Claims 20-25, 30 and 31 are presented herein for reconsideration in Examiner.

Respectfully submitted,

By:

John G. Posa  
Reg. No. 37,424  
Gifford, Krass, Groh, Sprinkle,  
Anderson & Citkowski, PC

PO Box 7021  
Troy, MI 48007-7021  
(734) 913-9300 FAX (734) 913-6007  
Email: [jposa@patlaw.com](mailto:jposa@patlaw.com)

Date: August 3, 2006